(VADE)

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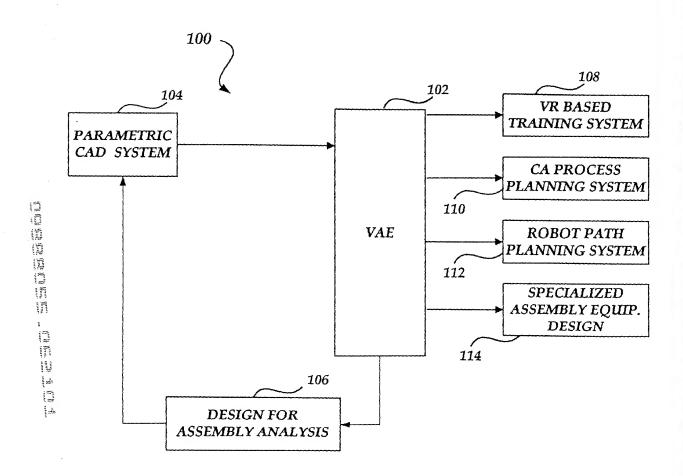


FIG. 1

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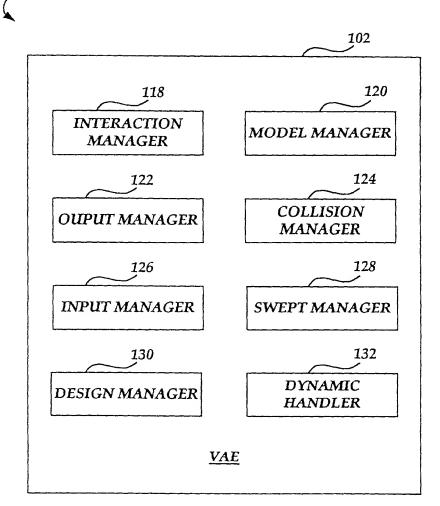


FIG. 2

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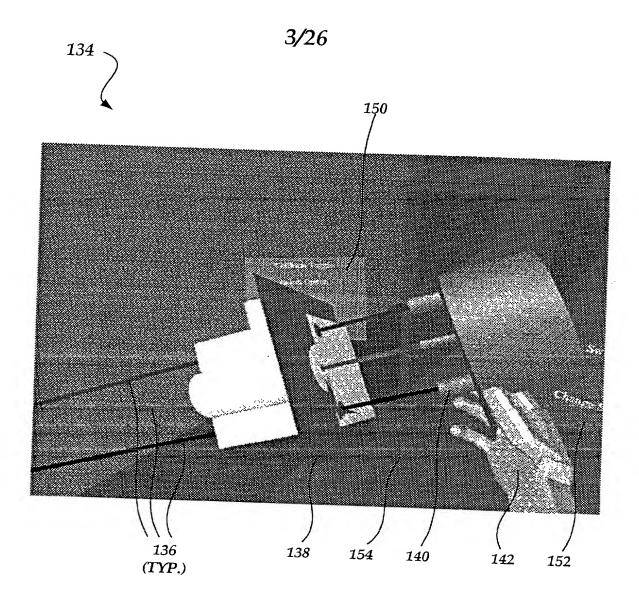


FIG. 3

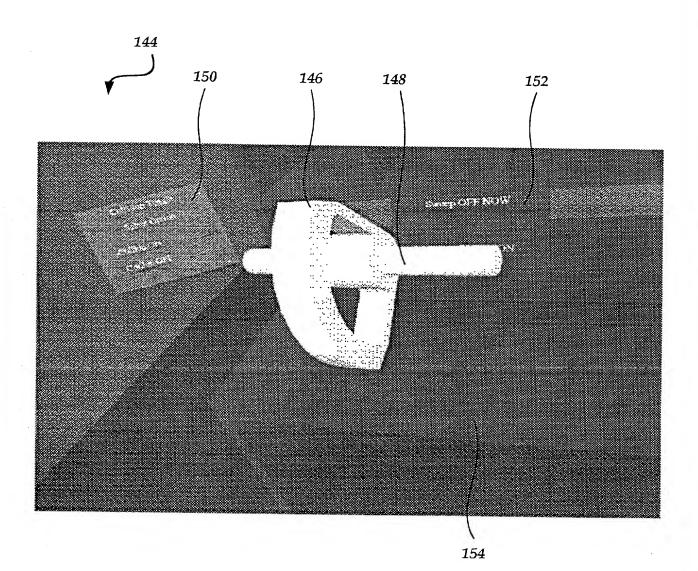
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Title: VIRTUAL ASSEMBLY DESIGN ENVIRONMENT (VADE)
Inventors: S. Jayaram et al.

Docket No.:

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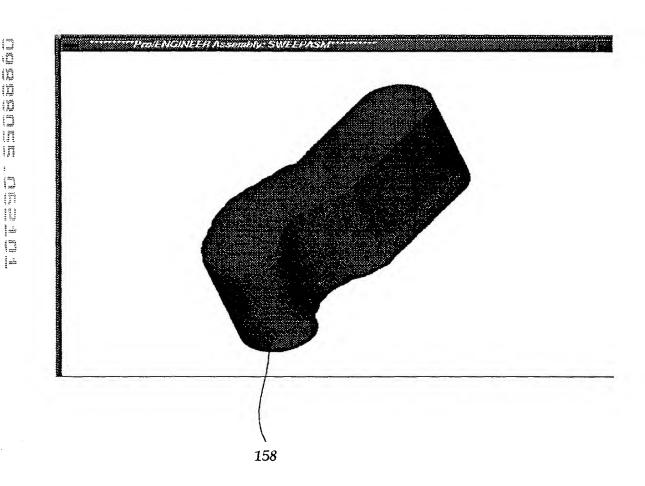


FIG. 5

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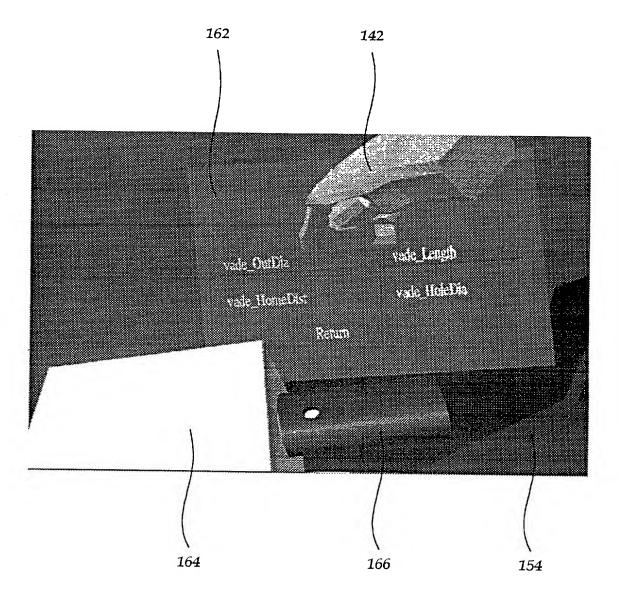


FIG. 6

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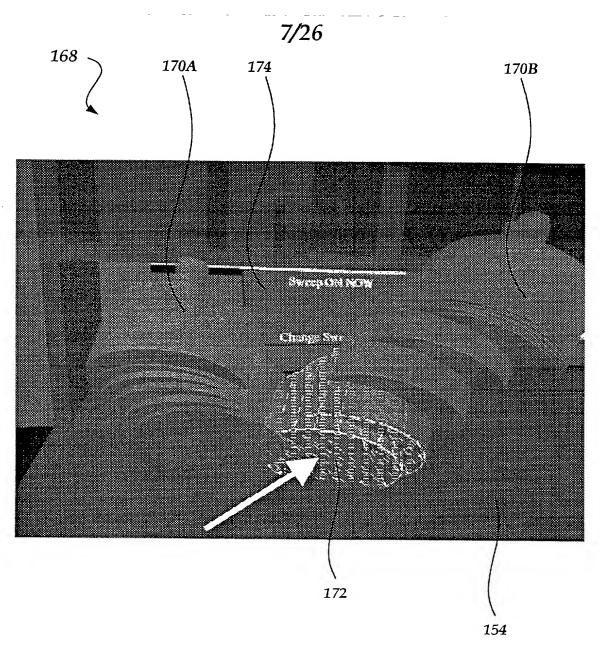


FIG. 7

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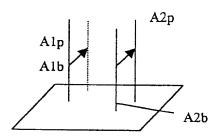
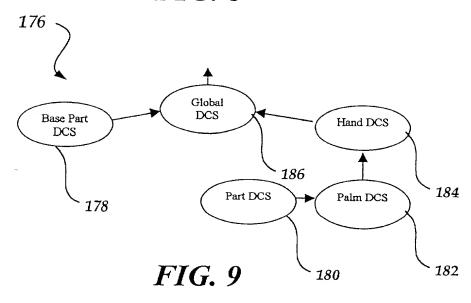
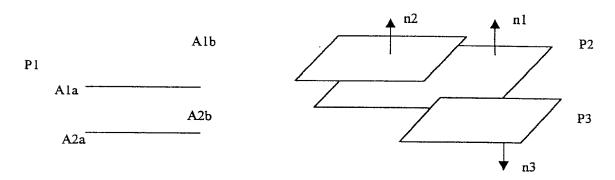


FIG. 8





(a) (b) FIG. 10

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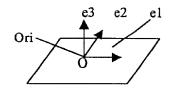


FIG. 11

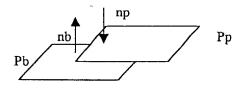


FIG. 12

Combination and order	Conditions
A1, A2	A1 n// A2
A1, A2, A3	A1 // A2, A1 n// A3
A1, A2, P3	A1 // A2, A1 n// P3
A1, P2	Al n// P2, Al n⊥ P2
A1, P2, A3	A1 // P2, A1 n// A3
A1, P2, P3	A1 // P2, A1 n// P3
A1, P2, A3	A1 \(\perp \text{P2}\), A3 any case
A1, P2, P3	A1 \(\perp \text{P2}, \text{ P2 n// P3}\)
P1, A2	P1 n// A2, P1 n.L A2
P1, A2, A3	P1 // A2, A2 n// A3
P1, A2, P3	P1 // A2, A2 n// P3
P1, A2, A3	P1 ⊥ A2, A3 any case
P1, A2, P3	P1 ⊥ A1, P1 n// P3
P1, P2, A3	P1 n// P2, (intersection line of P1, P2) n// A3
P1, P2, P3	P1 n// P2, P1 n// P3, P2 n// P3

FIG. 13

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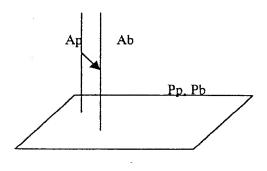


FIG. 14

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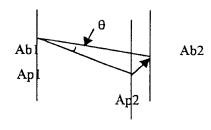


FIG. 15

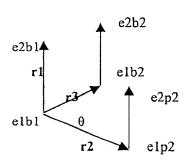


FIG. 16

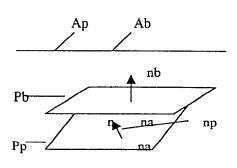


FIG. 17

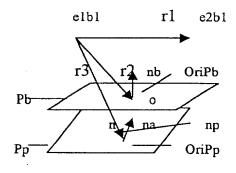


FIG. 18

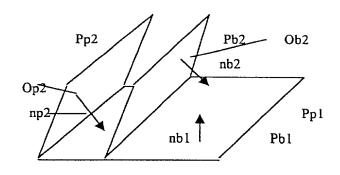


FIG. 19

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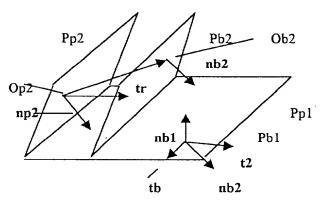


FIG. 20

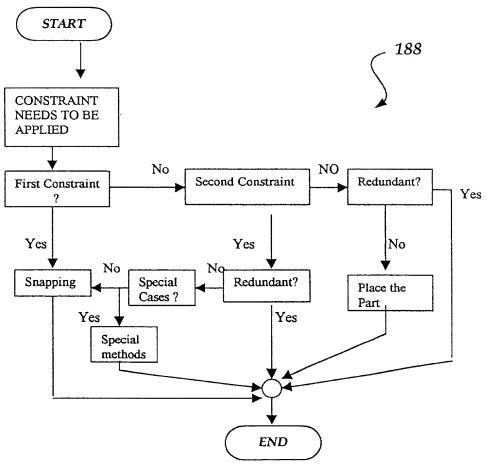


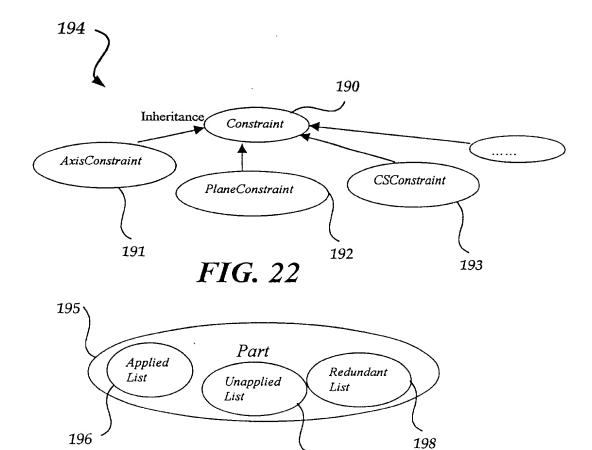
FIG. 21

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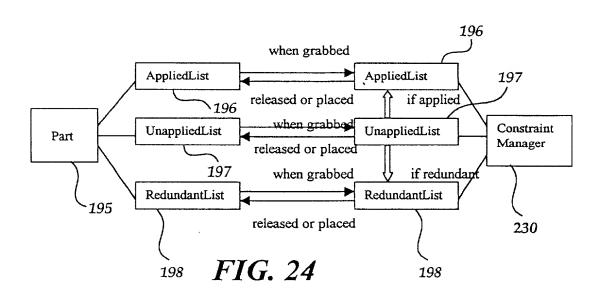


FIG. 23

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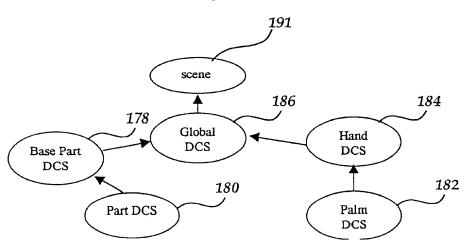


Fig. 25

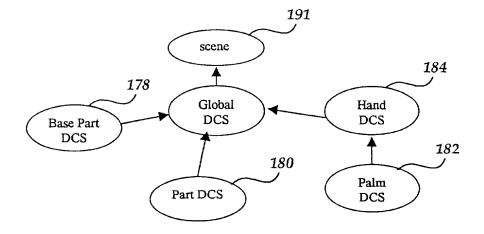


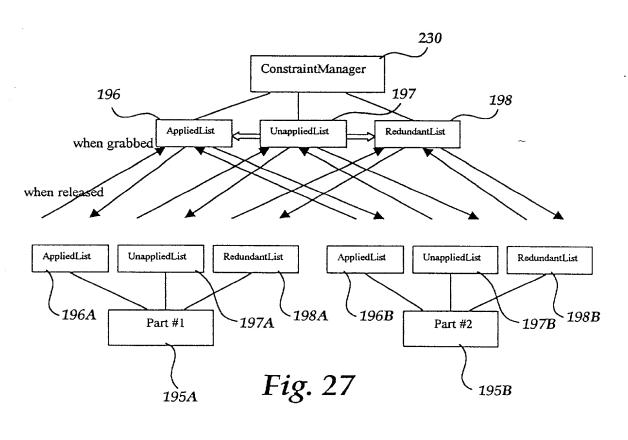
Fig. 26

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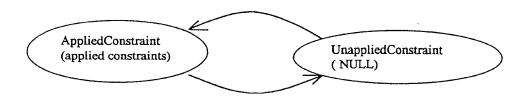


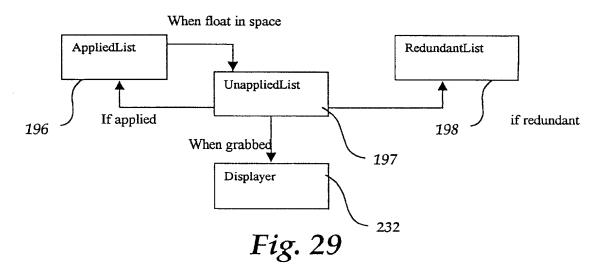
Fig. 28

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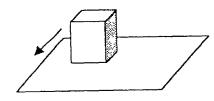
```
crank property file
LENGTH UNITS: Inch
MASS UNITS: Pound
Surface Finish: 0.001000
Default Linear Tolerances: +- 0.100000 +- 0.010000 +- 0.001000
Default Angular Tolerances: ANG+- 0.500000
           12.6798973
Volume:
Surface Area:
                  69.5717665
             1.0000000
Density:
Mass:
          12.6798973
CENTER OF GRAVITY wrt DefaultCSCO coordinate frame: X Y Z
                      0.0000000
                                                    0.5907307
                                     1.1668295
INERTIA wrt DefaultCSC0 coordinate frame:
INERTIA TENSOR:
                     69.0504703
                                    -0.0536521
Ixx Ixy Ixz
                                                   0.0000182
Iyx Iyy Izz
                     -0.0536521
                                  17.8369050
                                                   -3.1957782
                     0.0000182
                                    -3.1957782
                                                   68.8163268
Izx Izy Izz
INERTIA at CENTER OF GRAVITY wpt (Axis aligned) DefaultCSCO coordinate
frame:
INERTIA TENSOR:
                                    -0.0536521
                     47.3620913
                                                   0.0000182
Ixx Ixy Ixz
Iyx Iyy Izz
                     -0.0536521
                                    13.4120927
                                                    5.5442472
                      0.0000182
                                     5.5442472
                                                   51.5527601
Izx Izy Izz
PRINCIPAL MOMENTS OF INERTIA (wrt MC):
                                    47.3621611
I1 I2 I3
                     12.6224281
                                                   52.3423549
ROTATION MATRIX from DefaultCSCO orientation to PRINCIPAL AXES:
                      0.0015290
                                 -0.9999977
                                                  -0.0015153
                                    0.0013001
                      0.9900096
                                                   0.1409941
                     -0.1409918
                                    -0.0017157
                                                    0.9900093
```

(VADE)

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	ifting Capacity for infrequent movement and short distances wounds)			
		Men	Women	
1.	Both hands in front Or one hand at side	60	40	
2.	Both hands 20 inches in front	20	13.3	
3.	Each hand at side	30	20	
3.	One hand or each 5 inch out	35	23.3	

Fig. 31



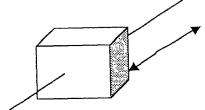
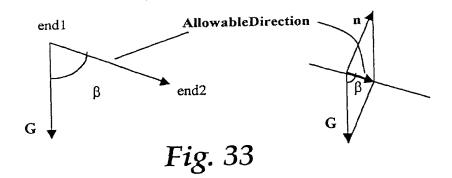


Fig. 32



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Title: VIRTUAL ASSEMBLY DESIGN ENVIRONMENT

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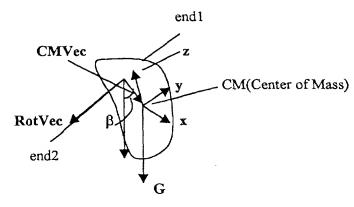


Fig. 34

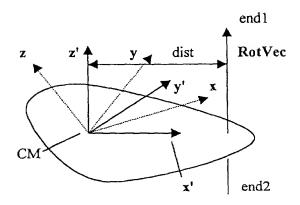


Fig. 35

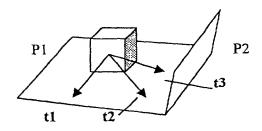


Fig. 36

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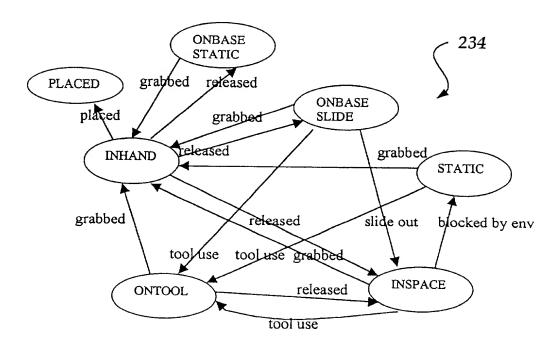
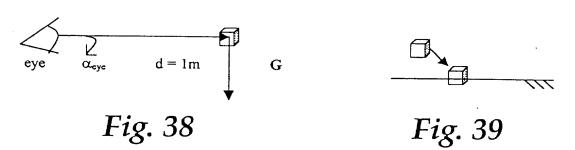


Fig. 37



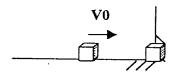


Fig. 40

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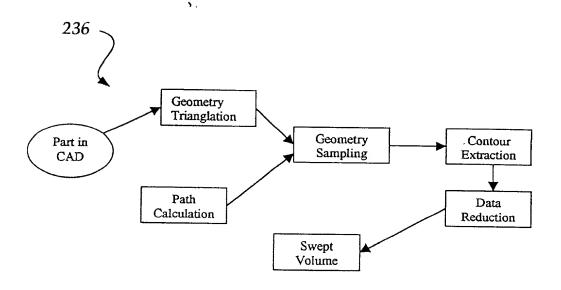


Fig. 41

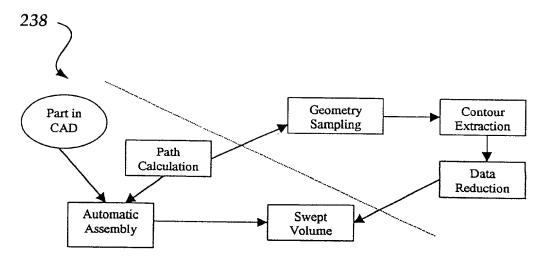


Fig. 42

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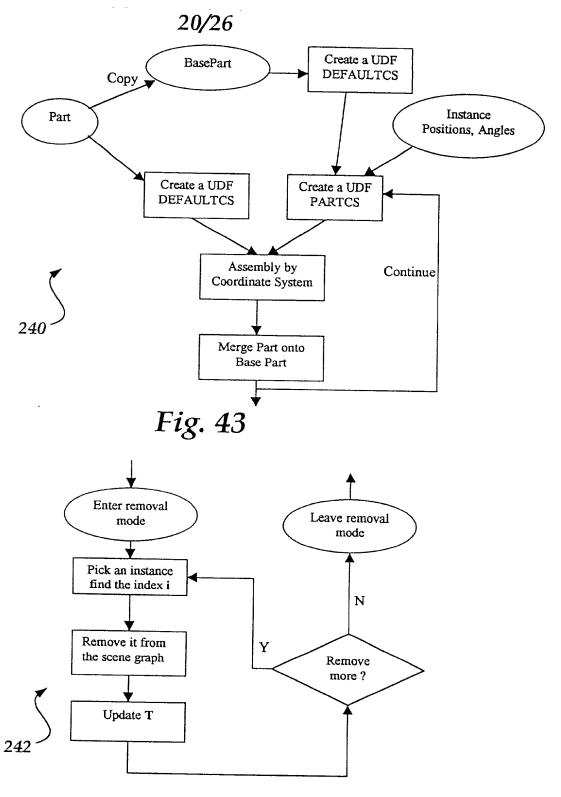


Fig. 44

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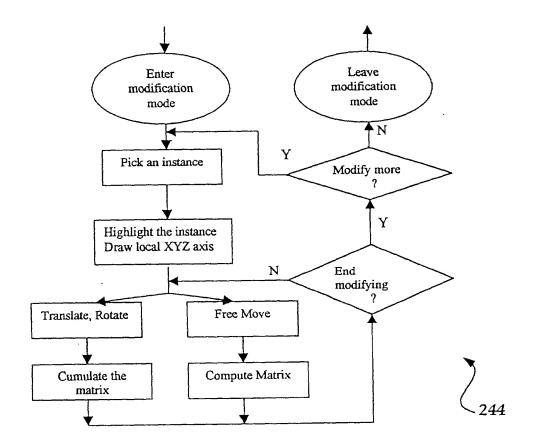


Fig. 45

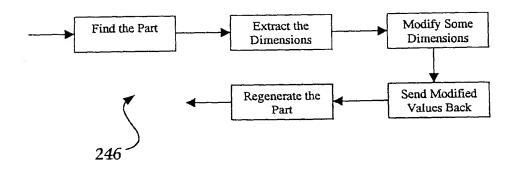


Fig. 46

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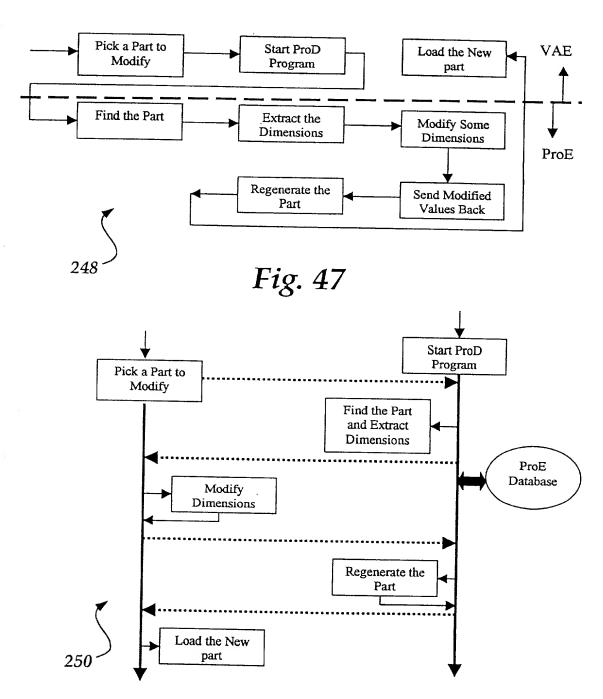
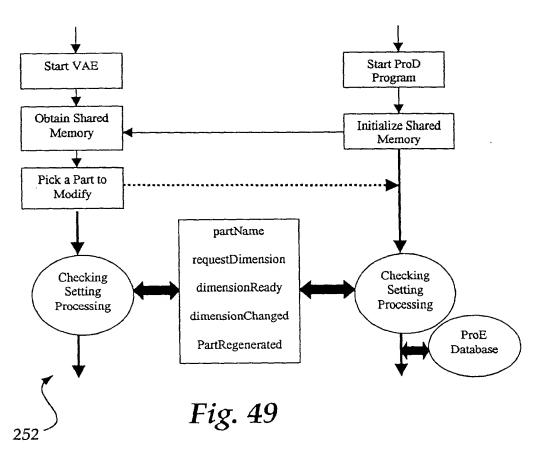


Fig. 48

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```
If ( dimensionReady)
{
    display dimensions;
    let user pick dimensions;
    modify the picked dimensions;
    dimensionChanged = ON;    /*set the flag */
    dimensionReady = OFF;    /*reset the flag*/
}

If ( partRegenerated)
{
    load the new part;
    replace the old part;

    partRegerated = OFF;    /*reset the flag*/
}
```

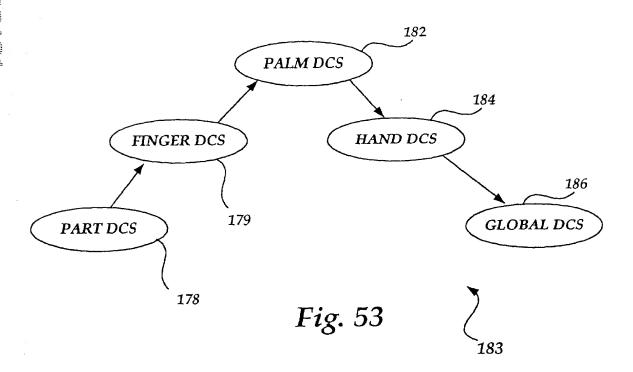
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```
If (requestDimensions)
       find the part;
       load part into memory;
        extract the dimensions;
                                      /*set the flag */
        dimensionReady = ON;
                                       /*reset the flag*/
        requestDimensions = OFF;
  }
If ( dimensionChanged)
        get new dimensions;
        set the new dimensions;
        regenerate the part;
        partRegenerated = ON;
                                      /*set the flag */
                                       /*reset the flag*/
        dimensionChanged = OFF;
  }
```

Fig. 51



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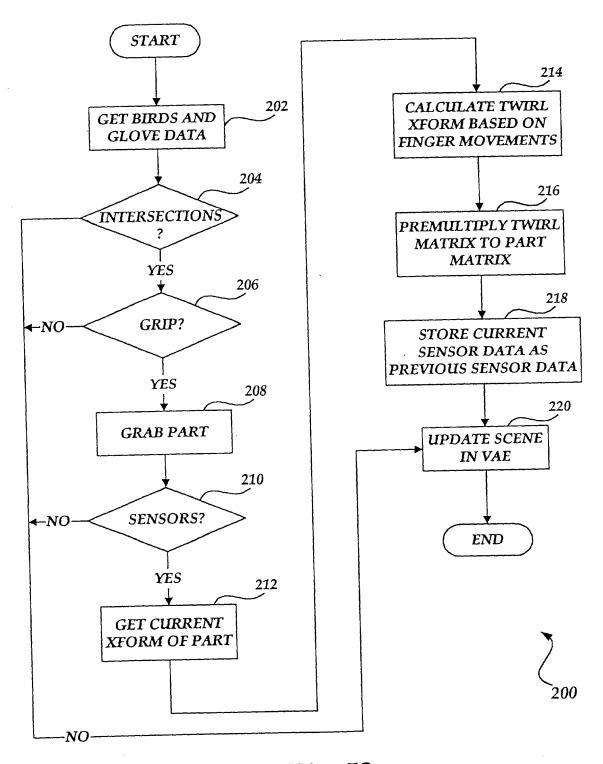


Fig. 52

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